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Christopher Erath, declares, pursuant to 28 U.S.C. § 1746 and subject to the penalties of perjury, that the following is true and correct:

My name is Christopher Erath and I am a Director at BLDS, LLC in Natick, Massachusetts. BLDS is a consulting firm specializing in the analysis of labor market outcomes. I received a Ph.D. in economics from the University of Wisconsin where my fields of interest included labor economics, econometrics, and industrial organization. My curriculum vitae has previously been produced.<sup>1</sup>

This report supplements an earlier report I filed on the use of the CNS code after exam 6019. In that report I noted that following the methodology proposed by Plaintff-Intervenors' expert Dr. Joel Wiesen in his 2007 report, I found no statistically significant difference by race in the use of the CNS code. At his trial appearance on August 1st, Dr. Wiesen agreed that no significant difference existed using his own methodology but then proposed an entirely new methodology in which he limited the population under consideration. However, it was unclear what limitation he applied until he provided backup materials on August 4<sup>th</sup>. In my report of August 5<sup>th</sup> and testimony on August 8<sup>th</sup> I noted that Dr. Wiesen's new methodology did not limit the sample to those reviewed by the PRB, but rather included many never reviewed by the PRB (as many hired never went before the PRB) and excluded applicants who did go before the PRB (applicants could be and were rejected for other reasons after being approved by the PRB). A study of outcomes assigned by the PRB which was not limited to those reviewed by the PRB is without merit.

Only with Dr. Wiesen's methodology change, revealed on August 4<sup>th</sup>, was there an indication that he was attempting to limit the population (however unsuccessfully) under consideration to those

<sup>&</sup>lt;sup>1</sup> BLDS is being compensated at \$475 per hour for my work in this case.

reviewed by the PRB.<sup>2</sup> After my testimony on August 8<sup>th</sup>, I requested a list of those applicants actually reviewed by the PRB, and these data were provided to me on August 12<sup>th</sup>, after I had departed on a vacation which continues as of this writing. A copy of the list of applicants is attached to this report.

The data provided, which I understand were compiled by Dean Tow, show 210 applicants reviewed by the PRB and the outcome of the PRB's review.<sup>3</sup> I merged these data with the data sets both Dr. Wiesen and I used to add race to the data set, and then limited the data to blacks and whites. As Dr. Wiesen used three alternate definitions of race, I used the same three definitions and in each case compared the fraction of whites and blacks who received a CNS code among those reviewed by the PRB. In no case was there a statistically significant difference by race: that is, for each of Dr. Wiesen's definitions of race, there is no evidence to support a claim that the CNS code was more likely to be assigned to either race. The table below shows the results for the definition based on Exhibit Z, which I understand to be the most reliable information on race.<sup>4</sup> Blacks were 16 percent of those reviewed by the PRB and 22 percent of those who received a CNS code, and this small difference (had two fewer blacks received the CNS code there would be no difference) is far from statistical significance.

## Incidence of CNS Code Among Applicants Reviewed by PRB

	Black	White
Reviewed by PRB	26	136
CNS Code	8	28
Is Difference Sta	NO	

<sup>&</sup>lt;sup>2</sup> Dr. Wiesen's report is called "Outline Description of 6019 Statistical Analysis of CNS Dispositions Among Candidates Reviewed for Character."

<sup>&</sup>lt;sup>3</sup> Mr. Tow advised me that code A indicated PRB approval while code D indicated disapproval. One applicant received code S and this applicant was ultimately coded as CNS.

<sup>&</sup>lt;sup>4</sup> Exhibit Z's information comes from self-identification of race from applicants themselves, while Exhibit Y relies upon visual identification of race by investigators during an interview. Dr. Wiesen's third option combines the two sources but does so inconsistently, coding an applicant as black if noted as black in either file but requiring identification as white in both files to be coded white.

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I conclude, then, that there is no statistical evidence to support a claim that blacks were more likely to be assigned the CNS code than whites when applicants reviewed by the PRB after exam 6019 are examined.

Christopher Erath

August 19, 2011

## FIREFIGHTER LIST/EXAM 6019 Run Date: 12-AUG-11

List Num	Lname		Prb Result
00007D		HASSAN	Α
	KENNEDY		Α
	ENEENAGU		A
	SABIR	NAFIS	A
	SANTAGAT		D
00066V		ERIC	Α
00078V		ANTHONY	A
	ZIMMERMA		D
	CHADEAYN		Α
00091V			Α
00095V	VEGA	ANGEL	A
	POLLARD		A
00121		MATTHEW	
00123V		MATTHEW	
	RONALDSC		
00142	PEGUERO	JOSE	A
	SALFELDEF	ERIC	D
00148V	TORRES	LAURENCE	
00151D	REGAN	KEVIN	Α
00159V		CHRISTOP	
00161V	BOZEK		D
00167V	YANY JR.		D
00180	MOLINA		Α
00189V	FOLEY		Α
00190V	KOUTALIDI		Α
00195	CLARK	DENNIS	D
00198	NIEMCZYK		Α
00199V	HALE	ANDREW	
00201		TERRENCE	Α
00203	GIAMBRON		Α
	LOMONACO		
	MENDOZA		
	VAQUERO	RUBEN	Α
00233V			D
00241V	ADAMS	ANTHONY	Α
00248	TASAKOVI	DAVID	Α
00252	REILLY	JOSEPH	D
00270V	KLEMM	TODD	Α
00281V	RODRIGUE		Α
00309	GLEASON		Α
00312	SILVERMAI		Α
00315		MATTHEW	Α
00318V	SALAZAR	MIGUEL	Α
00327V	MALDONA		Α
00337	CRUZ	ROGER	D
00342V	CROWLEY	STEPHEN	Α
00355	SIGNOR	DANIEL	Α
00365	ROWE	KYLE	Α
00376	LONG	WILLIAM	Α

00377V	MERCADO	10HN	D
00377V	ISRAEL	KERROL	Α
00401	ARAGONA		Α
00401 00410.5V	BENNETT		D
00413	FAVREAU	JOSH	A
00428	FRISCIA II		Α
00435V	MCALONEY		D
00437	RIVERA	JEREMY	Α
00438V	BOYA	MANUEL	Α
00442	HRDLICKA		Α
00444	MICELI JR	VICTOR	Α
00455V	COOLEY	JASON	Α
00462	BISHOP	ADAM	Α
00493	DISILVEST	ADAM	D
00510	DIGIESI	JASON	Α
00511	HEFFERNA	DANIEL	Α
00517	COWHIG	DANIEL	Α
00519	GONZALEZ	ANDRE	Α
00537	METZING		Α
00542	LOENNECK		Α
00544V	HEISTER		A
00564	CATALETTO		A
00583	ESSERMAN		Α
00589	ELLIOT		_
00596			D
		CHRISTOPI	
00604		ANTHONY	
00610V	-	ALEJANDR(	
00614	SETTINERI		Α
00621	STAROSTI/		Α
00622V	ROSAS	JULIO	Α
00626V	HENRI	MICHAEL	D
00642V	ACOSTA		Α
00651V	CHO	STEPHEN	Α
00656	DALY	RYAN	D
00659	MILLER	JEFFREY	Α
00660	<b>DOMINGUE</b>	IVON	Α
00669	DUFFICY	TIMOTHY	Α
00673	PANELLI	MARQUES	D
00688	SHEPARD J	ERIC	D
00691V	HEALY	CHRISTOPI	Α
00698V	WATTS	AUSTIN	Α
00704		JOSEPH	Α
00710	WILHELM	KIERAN	Α
00712	URENA	EDWARD	D
00713		JAMES	Ā
00724		TIMOTHY	A
00726		KEVIN	Α
00742	SCANNELL		D
00745		JESSE	A
00747V	ASTUDILLO		Α
007477		JASON	
			D
00765	COYNE	KERRY	A

00773	QUINN	CONOR	Α
00782	SHEDD	STEPHEN	Α
00794	COSTELLO		Α
00797.5		LAKEY	Α
00797D	LEO	WILLIAM	Α
00806	SANTARO	CHARLES	Α
00807	CRANSTON		Α
00813	JACKSON	LAWRENCE	
00813 00824V	CARTER	IBRAHAM	D
	MITCHELL		Α
00829			
00831	LONERGAN		A
00854	PEPE	ROBERT	D
00861	FLOREZ	OMAR	A
00882	FLORIDIA	DANIEL	A
00886	PRICE	KENNETH	A
00909	QUINTANA		A
00915	OROURKE		A
00927	PRESTON	JAMES	A
00929		KEVIN	A
00951	SHIELDS	WILLIAM	D
00961	THOMPSON	MATTHEW	A
00963	CRISCI	MICHAEL	Α
00995	HENRY	PAUL	Α
01003	LEONARD	BRIAN	Α
01021	TASSO	MICHAEL	D
01031	MALLOY	<b>CHRISTOPI</b>	Α
01035.5	GREGORY	JUSTIN	Α
01037	RIZAK	MICHAEL	Α
01041	MOUGHTY	SEAN	Α
01047	BELL	KALISH	Α
01050	KEATING	MATTHEW	Α
01065	MCGOWAN		Α
01068.5	BITENAS	KESTUTIS	D
01090		NICHOLAS	
01101	SILLETTI	JONATHAN	
01103	RIZZO	DOMINICK	
01120	JENNINGS		Α
01123	OBRIEN	MARK	Α
01125	WALTERS	MATTHEW	Α
01126	CONTI	JOSEPH	Α
01126	OBOYLE	GAVIN	Α
01130	GRANT	SHELTON	Α
01147.5	MARZIALE		D
01150	MAKLARI	DANIEL	D
01150	GRIFFIN		Α
01154		DAVID	D
	FAISON	WILSON	
01165	OBRIEN	SEAN	A
01175		EDDIE	Α
01179	ATWOOD	DEREK	A
01184	FIGUEROA		A
01197	DECOTEAU		Α
01210.5V	TRESTIK II	IED	A

01217	LIGRECI	JOHN	Α
01221	LYNCH	JOHN	Α
01223V	MAHONEY		Α
01223	ILLANES	CARLOS	Α
01229			
	LAVADO	ANTHONY	Α
01241	MCGINLEY		Α
01247V	PEREZ	RAUL	D
01257	FREEMAN	JESSE	A
01258	DIEZ-DEAN		A
01264	HOPKINS	BRIAN	D
01275	FLORES	JOHN	D
01278	MOORE	WILLIAM	Α
01290	LYNCH	MICHAEL	Α
01290.5	NEWSOME	SEAN	D
01294	HOLDIP	SEAN	Α
01295	RAGUSA	<b>VINCENZO</b>	Α
01300	CARLUCCI	DANIEL	Α
01301	BURBAN	BRIAN	Α
01342	MCNEIL	COURTNEY	D
01362	FLAHERTY		Ā
01371.5V	DROBECKE		Α
01380V	HOLDEN	JUSTIN	Α
01395	ARA	CHRISTOPI	
01400	BRESLIN	SEAN	A
01406V	PRICE	RAYMOND	A
01405V	BOYCE	MARK	D
01429	HURLEY	JOSEPH	А
01429			
	MCHUGH	RYAN	D
01449	GHANEM	MOUMIN	D
01453	FRONTERA		A
01458	CASTELLAN		A
01480		JOSEPH	A
01502	CUNNINGH		A
01539	MCPARTLA		A
01559V	GUZMAN	GAYBER	Α
01574	CRANE	JOSEPH	Α
01590	INNONE		Α
01605	MCGUIRE J		D
01616	BEAN	MICHAEL	Α
01619	CAMINITI	CHRISTOPI	Α
01624	ROA	ANGELO	Α
01641	PALMER	RICHARD	Α
01663	BRUNO	MATTHEW	D
01675	GILL	JOVAN	D
01697	GILI	CHARLES	D
01752	BEVILACQI	DANIEL	Α
01812	LAURO		Α
01887		JAMELLE	Α
01899			Α
02009		LUKASZ	A
02018	SCHARFGL		
03457.5			Α
00 107.0	THES	STAINLLI	/1

04130.5	ORLOWS	<] DANIEL	Α
05413.5	BURTIS	RYAN	Α
05875.5	GIOIA	PETER	Α
07010.7	MCLAUGH	IL BRIAN	Α
07245.5	BERNARD	C ANGELO	Α